

Title (en)
Differential transformer type magnetic sensor and image forming apparatus

Title (de)
Differentialtransformatormagnetsensor und Bilderzeugungsvorrichtung

Title (fr)
Capteur magnétique de type transformateur différentiel et appareil de formation d'image

Publication
EP 2720058 A2 20140416 (EN)

Application
EP 13188240 A 20131011

Priority
JP 2012227992 A 20121015

Abstract (en)
A differential transformer type magnetic sensor includes a board, a drive coil, a first differential coil, and a second differential coil. The drive coil includes a planar coil in which a dimension of a first direction which is one of longitudinal and transverse dimensions is smaller than that of a second direction which is the other of the longitudinal and transverse dimensions, and is disposed on the board. The first differential coil includes a planar coil having the same shape as the drive coil, and is disposed on the board. The second differential coil includes a planar coil having the same shape as the drive coil, and is disposed on the board. The first differential coil and the second differential coil are electrically connected so that a direction of induced current flowing along the first differential coil and a direction of induced current flowing along the second differential coil are opposite to each other. The differential transformer type magnetic sensor is disposed on a development part with the first direction set to be vertical and with the second direction set to be horizontal.

IPC 8 full level
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CPC (source: EP US)
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G03G 15/086 (2013.01 - EP US)

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